

Lab Program - 8

```
)); import java.util.*;
```

```
1(1); class ageException
```

```
(1);
```

```
2)1(1);
```

```
import java.util.*;
```

```
class ageException extends Exception {
```

```
    int details;
```

```
    ageException(int a) {
```

```
        details = a;
```

```
    }
```

```
    public String toString() {
```

```
        return "Exception: " + details + "The entered age doesn't  
        Match the category";
```

```
    }
```

```
}
```

```
class Father {
```

```
    int age;
```

```
    Father(int age) throws ageException {
```

```
        this.age = age;
```

```
        if (this.age <= 0) {
```

```
            throw new ageException(this.age);
```

```
        }
```

```
    void display() {
```

```
        System.out.println("Father's age: " + this.age);
```

```
    }
```

```

class Son extends Father {
    Father f;
    Son (int age, Father f) throws ageException {
        super (age);
        this.f = f;
        if (this.age >= this.f.age) {
            throw new ageException (this.age);
        }
    }
}

```

```

public class Lab8 {
    public static void main (String[] args) {
        try {
            Scanner input = new Scanner (System.in);
            Father f = new Father (input.nextInt());
            Son s = new Son (input.nextInt(), f);
            s.display();
        } catch (Exception e) {
            System.out.println(e);
        }
    }
}

```